



Universal Notebook Battery Pack

User's Manual



Thank you for purchasing *Energy Box* universal notebook battery pack. *Energy Box* is ideal when your notebook built-in battery gets depleted or when you want to increase your notebook battery runtime. Please read the user manual thoroughly before start using *Energy Box* and keep it in a safe place for future reference.

Safety precautions

Danger! Battery leakage, explosion or fire may be caused if you do not follow the below precautions carefully

In order to prevent battery leakage, heat or explosion, please be aware to:

- Do not throw the battery into water or fire. Avoid water (or any other liquid) seepage into the battery;
- Store the battery in a cool and dry place, do not use under extreme heat;
- Avoid to short circuit the battery terminals with metal objects, do not transport or store the battery with necklace, hair clipper or other metal objects near it;
- Avoid striking, throw or shaking the battery;
- Avoid piercing the battery shell via nail or other sharp objects, avoid to tamper with it, to hammer or to trample on the battery;
- Do not attempt to disassemble or alter the battery in any way.

This device is designed to power equipments like notebooks. Do not use it to support medical equipments directly related to human life.

Warning!

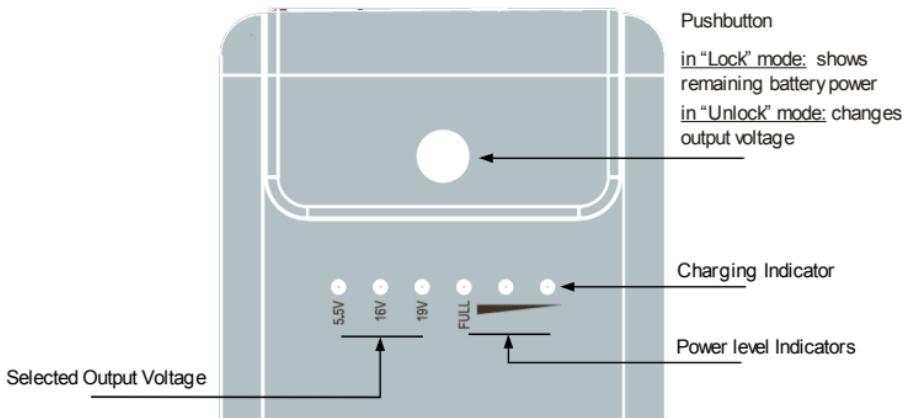
- Do not put battery into microwave oven or pressured vessel;
- Stop using when unusual smell, smoke, heating, colour-change of battery cover or other abnormalities come out of the battery;
- Keep away from the fire when leakage or unusual smell comes out from the battery;
- Leaked electrolyte may cause fire or explosion;
- Do not wipe your eyes if the leaked electrolyte enters into them: wash with running water and ask your doctor for immediate assistance, the eyes may be damaged if not treated timely.

Attention!

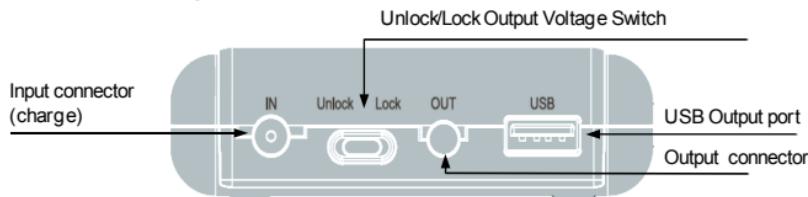
- Do not use the battery in extremely hot environment ($>40^{\circ}\text{C}$), like inside the car with direct sunlight or in summer. Otherwise, the battery becomes overheated. High temperatures decrease the battery performance and shorten its service life.
- If you have to store the battery for a long time (over three months), keep it charged to 50% of the rated capacity (charge once every 3 months), store it in a dry place with a temperature not beyond $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, and avoid the contact with corrosive objects. Keep away from the fire and heat sources in general.
- Teach children how to use the battery according to the user manual, and pay attention to guarantee their correct operations.
- If the battery leaks the electrolyte on skin or clothes, wash with running water, otherwise it will cause skin inflammation.

Functions Illustration

Front Panel Description



Rear Panel Description



Basic Operations

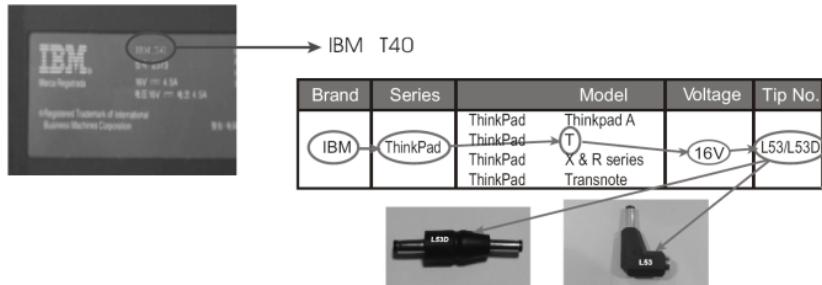
Energy Box provides two different voltage outputs (16V - 19V) in order to be compatible with most notebook models.

Step 1:

Before using *Energy Box*, make sure it is fully charged. Read the "how to charge" section carefully first.

Step 2:

Refer to the user manual of your notebook or check the label to figure out brand and model. From the compatibility list select the input (Lxx) and output (LxxD) proper tips and the voltage value according to the notebook brand and model. Take IBM T40 as an example.



If your laptop model is not included in the Compatibility List check the voltage of its power supply and then try if any of the tips can fit. Refer to "Tips

Specifications" chapter for the tips characteristics and polarity.

Step 3:

Set the battery pack output voltage at the value required by your notebook as follows:

1. Move the Lock/Unlock switch to Unlock position;
2. press the pushbutton to select output voltage. The output voltage is displayed by a LED (5.5V, 16V and 19V are selectable);
3. Move the Lock/Unlock switch back to Lock position;

Step 4:

Press the pushbutton on the front panel of the battery pack and check LED indicators. If only one or no indicators are lighted, it means that the battery is not charged and first you have to fully charge it using your notebook charger. Follow the instructions on the "how to charge" section in order to charge *Energy Box*. During the charge the first LED will be red lit. The fully charge status is indicated by the FULL LED (green) lit, and the red LED turned off. In order to improve the charge efficiency, during the charge process do not connect to *Energy Box* your notebook if its built-in battery is discharged.

Step 5:

Once *Energy Box* is fully charged, before proceeding the Lock/Unlock switch must be in Lock position. Then connect the selected output tip (LxxD) to bundled output cable, then insert it into DC-IN connector of your notebook. Connect the other end of the output cable into OUT connector of *Energy Box*. The battery pack is now ready to supply power to your notebook. As soon as you connect the output cable, *Energy Box* will deliver selected voltage (16V or 19V) to your notebook.

Battery Level Indicators

Three power level LED indicators show *Energy Box* power status. By pressing the pushbutton on *Energy Box* during discharging or when it is on idle status (switch on Lock position), the remaining power level will be displayed for some second. Details on indicators status are as following:

During charge	During discharge
0% - 10% (red) 	70% - 100% (green)
10% - 40% (red) 	70% - 40% (green)
40% - 70% (red) 	40% - 10% (green)
100% (green) 	<10% (green blink)

5.5V 16V 19V FULL

5.5V 16V 19V FULL

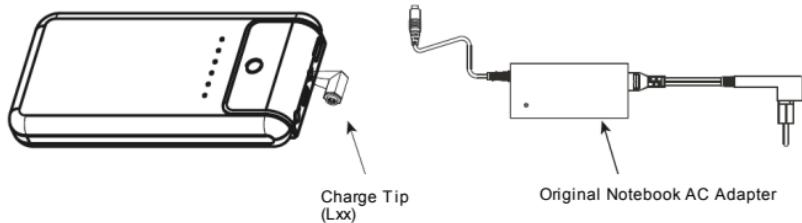
When the remaining power is below 10%, the battery pack goes into low voltage status. This condition is indicated by the first green LED blinking. When this happens, please save your work and switch to mains-operated power as soon as possible.

USB Output

The USB port provides a 5.5V supply. Connect USB input device (eg. Mobile Phone, MP3 player USB cable, etc.) to *Energy Box* USB port and 5.5V will be delivered to the device.

How to charge

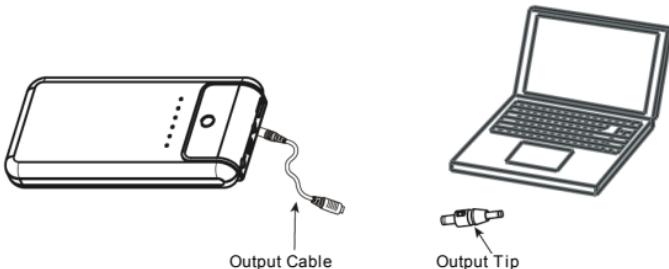
Connect the proper input tip (Lxx) to the notebook original AC adapter, then connect it to the IN connector of battery pack (refer to illustration for more details). Connect then the other terminal with electricity source to start the charge. During the charge the first LED will be red lit. The fully charge will be indicated by the FULL LED (green) lit, and the red LED turned off. In order to improve the charging efficiency, during the charge of *Energy Box* do not connect your notebook if built-in battery is discharged. Otherwise, the charge time lengthens.



Main Output Power

Before proceeding the Lock/Unlock switch must be in Lock position Connect one terminal of the bundled output cable to the OUT connector of battery pack (refer to illustration for more details), and the other terminal to the proper output tip (LxxD) and then to the DC-IN connector of the notebook. **Note:** make sure *Energy Box* is at proper output voltage level (16V or 19V)

before connect it to the notebook. During battery pack discharge, it will offer power supply to notebook first and charge the notebook built-in battery with small current. In order to improve *Energy Box* runtime, take out the built-in battery from the notebook (if discharged) before connecting it to *Energy Box*.



Warnings & Protections

In case of high current requirement (>3,2A) or abnormal use, *Energy Box* internal temperature can raise to a high degree: should this happen, the battery pack will shut off automatically.

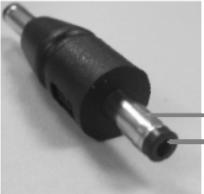
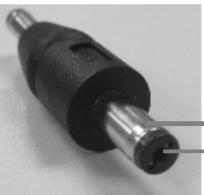
When the internal temperature decreases to a safe degree, the battery pack will turn on and unchain the safety protection automatically. Then it can be used again safely.

Do not use *Energy Box* with portable devices with high current requirement (>3,2A).

Technical Specifications

Model	Energy Box – Universal Notebook Battery Pack
Capacity	4000mAh
Dimensions (W×D ×H)	170 x 85 x 23 mm
Weight	450 g
Operating Temperature	0 °C ~ 40 °C
Input	
Charge Input (voltage / current)	16Vdc~25Vdc / 4A ~ 2.5A
Charge Time	2.5 ~ 3.5 h
Cycle Life	More than 300 full charging cycles
Output	
Capacity	44.4 W/h
Voltage (OUT)	16V, 19V (selectable)
Voltage (USB OUT)	5.5V (USB port)
Current	3.2 A
Max Constant Output Power	50 W
Accessories	
Input Connector Tips	6 Different types
Output Connector Tips	6 Different types + 1 Output Cable

Tips Specifications

Model	Picture	Polarity	Dimension
L01D			4.75x1.7mm
L51D			5.5x1.7mm
L53D			5.5x2.5mm

L54D			6.5x4.5mm
L55D			6.3x3.0mm
L61D			5.5x1.7mm
Output Cable			5.5x2.1mm

Devices and Tips Compatibility List

Brand	Series Model	Voltage	Tips Number
Acer/TI	Extensa 501	19V	Output Cable
	Extensa 502		
	Extensa 503		
	Extensa 600 Series		
	Extensa 700 Series		
	Extensa 710 Series		
	Extensa 712 Series		
	Extensa 390		
	Extensa 390C		
	Extensa 391		
	Extensa 392		
	Extensa 393		
	Extensa 394		
	Extensa 395		
	Extensa 512		L53/L53D
	Extensa 513		
	Extensa 514		
	Extensa 515		
	Extensa 516		
	Extensa 517		
	Extensa 610		
	Extensa 610CD		
	Extensa 610CDT		
	Extensa 616 Series		
	Extensa 620 Series		
	Extensa 690 Series		
	Extensa 900 Series		

Brand	Series Model	Voltage	Tips Number
Acer/TI	Travelmate 200 Travelmate 201 Travelmate 202 Travelmate 203 Travelmate 204 Travelmate 205 Travelmate 210 Travelmate 212 Travelmate 213 Travelmate 220 Travelmate 222 Travelmate 260 Travelmate 261 Travelmate 270 Travelmate 290 Travelmate 290E Travelmate 310 Travelmate 311 Travelmate 312 Travelmate 313 Travelmate 314 Travelmate 330 Travelmate 332 Travelmate 333 Travelmate 340 Travelmate 341 Travelmate 342 Travelmate 343 Travelmate 344 Travelmate 345	19V	L51/L51D

Brand	Series Model	Voltage	Tips Number
Acer/TI	Travelmate 346 Travelmate 347 Travelmate 350 Travelmate 351-354 Travelmate 361-364 Travelmate 505 Travelmate 506 Travelmate 507 Travelmate 508 Travelmate 520 Travelmate 521 Travelmate 524 Travelmate 525 Travelmate 527-529 Travelmate 534 Travelmate 600 Travelmate 602 Travelmate 603 Travelmate 604 Travelmate 610 Travelmate 611 Travelmate 612 Travelmate 613 Travelmate 614 Travelmate 620 Travelmate 621 Travelmate 622 Travelmate 623 Travelmate 630 Travelmate 631	19V	L51/L51D

Brand	Series Model	Voltage	Tips Number
Acer/TI	Travelmate 632 Travelmate 633 Travelmate 710 Travelmate 720 Travelmate 721 Travelmate 722 Travelmate 723 Travelmate 730 Travelmate 732 Travelmate 734 Travelmate 735 Travelmate 736 Travelmate 737 Travelmate 738 Travelmate 739 Travelmate 740 Travelmate 741 Travelmate 742 Travelmate 743 Travelmate 744	19V	L51/L51D
ALPHA-TOP	U370 Micron G756 U360	19V	L53/L53D Output Cable
AMI	FT6T20 TF6760	19V	L53/L53D
AST	Ascentia AST Ascentia A40 Ascentia A41	19V	L54/L54D

Brand	Series Model	Voltage	Tips Number
AST	Ascentia A4 Ascentia A432 Ascentia A51 Ascentia A60 Ascentia A70	19V	L54/L54D
ASUS	A1000 Series ArtBook L7336 B1000 Series F7000 F7400 Grandio F7400 L1000B Series L2000B Series L2000D Series L2000E Series L3000C Series L3000S Series L7000 L7000C L7200 L7233 L7300 L8400 M1000 Series M2000 Series M2 Sereis MP8xxx Series S1000 Series T4700CS	19V	L01/L01D

Brand	Series Model	Voltage	Tips Number
ASUS	T7200 T9000 Series	19V	L01/L01D
BAYCOM	2200 Series 2700 Series 2850 Series	19V	L53/L53D
ChemUSA	Chembook 6120 Chembook 6120L Chembook 6120N Chembook 7020	19V	L55/L55D
	Chembook 1535 Chembook 2020 Chembook 2056 Chembook 2250 Chembook 2300 Chembook 2333 Chembook 2370VA Chembook 3015 Chembook 3015E Chembook 3815 Chembook 3830 Chembook 3830A Chembook 4025 Chembook 4027 Chembook 5200 Chembook 5400 Chembook 5580 Chembook 9400 Chembook 9750	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
ChemUSA	Chembok 9780	19V	L53/L53D
	Chembok 9950		
	Chembok 1200	19V	L01/L01D
	Chembok 2060E		
	Chembok 7200		
	Chembok 7300		
	Chembok 7400		
	Chembok 8200		
Compaq	Chembok 8400	16V	Output Cable
	Chembok 3300N		
	Armada 100		
	Armada 4100	19V	Output Cable
	Armada 4200 Series		
	Armada 1100		
	Armada 1120		
	Armada 1125		
	Armada 1130		
	Armada 4110		
	Armada 4110D		
	Armada 4110T		
	Armada 4120		
	Armada 4120T		
	Armada 4124D		
	Armada 4125D		
	Armada 4130		
	Armada 4130T		
	Armada 4131		
	Armada 4131T		

Brand	Series Model	Voltage	Tips Number
Compaq	Armada 4150 Armada 4150T Armada 4160 Armada 4160T Armada 4210T Armada 4220T	19V	Output Cable
	Armada 110 Armada E300 Armada E500 Armada E700 Armada M300 Armada M700 Armada V300 Armada 600 series Armada 800 series Armada M-series	19V	L01/L01D
	Contura 3/20 Contura 3/25 Contura 3/25C Contura 4/20 Contura 4/25 Contura 4/25C Contura 4/25CX	19V	Output Cable
	Contura 386/486 series Contura 400C Contura 400CX Contura 410C Contura 410CX	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
	Contura 420C Contura 420CX Contura 430C Contura 430CX	19V	L53/L53D
Compaq	Presario 1000 Presario 1010 Presario 1020 Presario 1030 Presario 1040 Presario 1050 Presario 1060 Presario 1065 Presario 1070 Presario 1072 Presario 1075 Presario 1080 Presario 1082 Presario 1084 Presario 1090 Presario 1207 Presario 1210 Presario 1215 Presario 1220 Presario 1221 Presario 1230 Presario 1232 Presario 1235 Presario 1236 Presario 1237	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
Compaq	Presario 1240 Presario 1244 Presario 1245 Presario 1247 Presario 1250 Presario 1255 Presario 1256 Presario 1260 Presario 1262 Presario 1266 Presario 1267 Presario 1270 Presario 1272 Presario 1273 Presario 1274 Presario 1275 Presario 1277 Presario 1279 Presario 1280 Presario 1400 Presario 1400T Presario 1600 Presario 1610 Presario 1611 Presario 1615 Presario 1620 Presario 1621 Presario 1622 Presario 1625 Presario 1630	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
Compaq	Presario 1640 Presario 1650 Presario 1655 Presario 1665 Presario 1670 Presario 1672 Presario 1675 Presario 1680 Presario 1681 Presario 1685 Presario 1687 Presario 1688 Presario 1690 Presario 1692 Presario 1693 Presario 1694 Presario 1700 Presario 1700T Presario 1700XL Presario 1710 Presario 1710SB Presario 1800 Presario 1800T Presario 1800XL Presario 1810 Presario 1820 Presario 1825 Presario 1827 Presario 1830 Presario 2700	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
Compaq	Presario 2700T		
	Presario 700		
	Presario 700Z		
	Presario 701		
	Presario 702		
	Presario 703		
	Presario 704		
	Presario 705		
	Presario 705US		
	Presario 706		
	Presario 710		
	Presario 711		
	Presario 712		
	Presario 713		
	Presario 714	19V	L53/L53D
	Presario 715		
	Presario 716		
	Presario 717		
	Presario 718		
	Presario 719		
	Presario 720		
	Presario 721		
	Presario 722		
	Presario 723		
	Presario 724		
	Presario 725		
	Presario 800		
	Presario 800XL		
	Prosignia 160	19V	L01/L01D
	Prosignia 170		

Brand	Series Model	Voltage	Tips Number
	Prosignia 190		
DELL	Latitude 433M Latitude 433MC Latitude 433MCX Latitude 450MC Latitude 450MCX Latitude 475C Latitude 475D Latitude 475MC Latitude LX Latitude LXX 4100/T	19V	L53/L53D
	Latitude LX 450 Latitude XP 4100 Latitude XP4100C Latitude XP4100CX Latitude XP4100T Latitude XP450C Latitude XP475C Latitude XP475D	19V	L54/L54D
	Latitude D400 Latitude D410 Latitude D500 Latitude D505 Latitude D600 Latitude D610 Latitude D800 Latitude D810 Latitude X300	19V	L61/L61D

Brand	Series Model	Voltage	Tips Number
DELL	Inspiron 1150	19V	L61/L61D
	Inspiron 6000		
	Inspiron 8500		
	Inspiron 8600		
	Inspiron 9200		
	Inspiron 9300		
	Inspiron 300m		
	Inspiron 500m		
	Inspiron 600m		
	Inspiron 700m		
Digital	Precision M20	19V	L61/L61D
	Precision M60		
	M70 Workstation		
Digital	HINOTE 700VP SERIES ERA-1000	19V	L53/L53D
DUAL	ERA 1000 VDA9950	19V	L53/L53D
E-Machine	Endeavor TK-300	16V	L53/L53D
	E Slate Series Action Note 800	19V	L53/L53D
	866	19V	L53/L53D
	880		
	890		
	895		
	900		
	910		

Brand	Series Model	Voltage	Tips Number
EPSON	CtionNote 800 CtionNote 866 CtionNote 880 CtionNote 895 CtionNote 900 CtionNote 910	19V	L53/L53D
Featron	FT 8850 FT 9900	19V	L53/L53D
FUJITSU	Series B Series C Series E Series FMV Series CX Series L Series I Series S	16V	L54/L54D
	Lifebook 270Dx Lifebook 280Dx Lifebook 400 Lifebook 420 Lifebook 420D Lifebook 435Dx Lifebook 470 Lifebook 520 Lifebook 520D Lifebook 520T Lifebook 530 Lifebook 530T	16V	L54/L54D

Brand	Series Model	Voltage	Tips Number
FUJITSU	Lifebook 531T Lifebook 531T Lifebook 535T Lifebook 535TX Lifebook 555TX Lifebook 565TX Lifebook 585TX Lifebook 635 Lifebook 635T Lifebook 635TX Lifebook 655 Lifebook 655TX Lifebook 656TX Lifebook 675TX Lifebook 690TX Lifebook 735CDT Lifebook 735TX Lifebook 755TX Lifebook 756TX Lifebook 765DX Lifebook 765TX Lifebook 770TX Lifebook 785TX Lifebook 790TX Lifebook 985TX Lifebook 990TX Lifebook 990TX2	16V	L54/L54D
	Lifestyle Milan	16V	L54/L54D

Brand	Series Model	Voltage	Tips Number
FUJITSU	MonteCarlo MontegoFujitsu LifeStyle Pen Centra 200 Stylistic 3400 Stylistic 2300 Stylistic 1200 Point 1600 Point 510	16V	L54/L54D
	Stylus 3400 Tablet		
Gateway	Solo 1100 Solo 1150 Solo 1400 Solo 1450 Solo 1200 Solo 9550 GATEWAY Solo 2100-9500 series except 3300,3450 and 3350	19V	Output Cable
HITACHI	Flora Prius 210 Flora Prius 220N	16V	L53/L53D
	Vision Book Pro Vision Book Elite Vision Book Plus Vision Book E Vision Book E100D Vision Book E100DC Vision Book E100DN	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
HITACHI	Vision Book E133D Vision Book E133DN Vision Book E133T Vision Book E133TC Vision Book MX133T Vision Book MX150T Vision Book MX166T	19V	L53/L53D
	Flora prius 20L	19V	L54/L54D
HP	Pavilion Zt1125 Pavilion Zt1130 Pavilion Zt1131 Pavilion Zt1132 Pavilion Zt1135 Pavilion Zt1141 Pavilion Zt1142 Pavilion Zt1145 Pavilion Zt1150 Pavilion Zt1151 Pavilion Zt1152 Pavilion Zt1155 Pavilion Zt1161 Pavilion Zt1162 Pavilion Zt1170 Pavilion Zt1171 Pavilion Zt1172 Pavilion Zt1175 Pavilion Zt1180 Pavilion Zt1181	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
HP	Pavilion Zt1182	19V	L53/L53D
	Pavilion Zt1185		
	Pavilion Zt1190		
	Pavilion Zt1192		
	Pavilion 5200 series		
	Pavilion 5400 series		
	Pavilion ZE		
	Pavilion ZT		
	Pavilion ZU series		
	Pavilion Xh455		
	Pavilion Xh485		
	Pavilion Xh535		
	Pavilion Xh545		
	Pavilion Xh555		
	Pavilion Xh575		
	Pavilion Xh675		
	Pavilion Xu155		
	Pavilion Xz185		
	Pavilion Xz275		
	Pavilion Ze1110		
	Pavilion Zt1114		
	Pavilion Zt1120		
	Pavilion Zt1121		
Omnibook	Omnibook 2000	19V	L53/L53D
	Omnibook 2100		
	Omnibook 2103		
	Omnibook 2105		
	Omnibook 3000		
	Omnibook 3100		

Brand	Series Model	Voltage	Tips Number
HP	Omnibook 3101 Omnibook 3250 Omnibook 4000 Omnibook 4000C Omnibook 4000CT Omnibook 4000E Omnibook 4000M Omnibook 4100 Omnibook 4150 Omnibook 4150B Omnibook 6000 Omnibook 6050 Omnibook 6100 Omnibook 6200 Omnibook 7100 Omnibook 7103 Omnibook 7150 Omnibook Vt6200 Omnibook Xt1000	19V	L53/L53D
	XT15 2000 6000 series 7100 series 7150 series XE series XE2 series XE3 series 900 series		
	N1340 N3100	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
HP	N3110 N3150 N3200 N3215 N3250 N3270 N3290 N3295 N3300 N3390 N3400 N3402 N3410 N3438 N3478 N3490 N5000 N5100 N5125 N5150 N5170 N5190 N5195 N5200 N5210 N5240 N5250 N5270 N5290 N5295	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
HP	N5300 N5310 N5311 N5340 N5421 N5422 N5425 N5430 N5435 N5440 N5441 N5442 N5444 N5445 N5450 N5452 N5454 N5455 N5461 N5462 N5470 N5472 N5474 N5475 N5481 N5482 N5484 N5490 N5491 N5495	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
HP	N5511 N5584 N6191 N6195 N6395 N6396 N6397 N6398 N6399 N6400 N6401 N6403 N6404 N6490	19V	L53/L53D
IBM	ThinkPad I- Series 1410 ThinkPad I- Series 1411 ThinkPad I- Series 1441 ThinkPad I- Series 1450 ThinkPad I- Series 1451 ThinkPad I- Series 1472 series	19V	Output Cable
IBM	ThinkPad I- Series 1200 ThinkPad I- Series 1210 ThinkPad I- Series 1230 ThinkPad I- Series 1250 ThinkPad I- Series 1260 ThinkPad I- Series 1300 ThinkPad I- Series 1330 ThinkPad I- Series 1400	16V	L53/L53D

Brand	Series Model	Voltage	Tips Number
IBM	ThinkPad I- Series 1412 ThinkPad I- Series 1418 ThinkPad I- Series 1420 ThinkPad I- Series 1434 ThinkPad I- Series 1435 ThinkPad I- Series 1436 ThinkPad I- Series 1442 ThinkPad I- Series 1470 ThinkPad I- Series 1476 ThinkPad I- Series 1480 ThinkPad I- Series 1500 ThinkPad I- Series 1512 ThinkPad I- Series 1540 ThinkPad I- Series 1541 ThinkPad I- Series 1552 ThinkPad I- Series 1560 ThinkPad I- Series 1700 ThinkPad I- Series 1720 ThinkPad I- Series 1721	16V	L53/L53D
	ThinkPad 235 ThinkPad 240 ThinkPad 290 ThinkPad 310 ThinkPad 340 ThinkPad 345 ThinkPad 365 ThinkPad 380 ThinkPad 385 ThinkPad 390	16V	L53/L53D

Brand	Series Model	Voltage	Tips Number
IBM	ThinkPad 535 ThinkPad 560 ThinkPad 570 ThinkPad 600 ThinkPad 701 ThinkPad 770 ThinkPad 2621-xxx ThinkPad 1161-xxx ThinkPad 1171-xxx	16V	L53/L53D
	ThinkPad 600X Series ThinkPad 2645 ThinkPad 2611 ThinkPad Thinkpad A ThinkPad T ThinkPad X & R series ThinkPad Transnote	16V	L53/L53D
	ThinkPad 730T ThinkPad 350Series ThinkPad 500 ThinkPad 510 Series	19V	Output Cable
ITRONIX	GoBook Series	19V	Output Cable
JETBOOK	Jetbook Series	19V	L53/L53D
LEO	Designote 6800 9800 Green 400	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
NEC	Ready 220T Ready 330T Ready 340T Ready 360T series Ready 440T Ready VX	19V	L53/L53D
PANASONIC	ToughBook Cf01 ToughBook Cf07 ToughBook Cf17 ToughBook Cf25 ToughBook Cf27 ToughBook Cf28 ToughBook Cf33 ToughBook Cf34 ToughBook Cf35 ToughBook Cf37 ToughBook Cf41 ToughBook Cf42 ToughBook Cf45 ToughBook Cf47 ToughBook Cf48 ToughBook Cf61 ToughBook Cf62 ToughBook Cf63 ToughBook Cf71 ToughBook Cf72 ToughBook Cf-105B ToughBook Cf-170 ToughBook Cf-270 ToughBook Cf-37	16V	L53/L53D

Brand	Series Model	Voltage	Tips Number
PANASONIC	ToughBook Cf-380 ToughBook Cf-M34 ToughBook Cf-V21 ToughBook Cf-V21P ToughBook Cf-V25 ToughBook Cf-V41 ToughBook Cf-V45	16V	L53/L53D
PRIMEBOOK	P series	19V	L53/L53D
QUANTEX	H series I series T series W series 1550 TS30T H-1331	19V	L53/L53D
SAMSUNG	Pro sens 500 Pro sens 522 Pro sens 523 Pro sens 524 Pro sens 525	19V	L54/L54D
	Samsung GT 8000	19V	Output Cable
SHARP	Sharp Pc3000 Sharp Pc3010 Sharp Pc3020 Sharp Pc3030 Sharp Pc3040 Sharp Pc3050	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
SHARP	Sharp Pc3060 Sharp Pc3070 Sharp Pc3080 Sharp Pc3150 Sharp Pc9000 Sharp Pc9010 Sharp Pc9020 Sharp Pc9030 Sharp Pc9040 Sharp Pc9050 Sharp Pc9340T	19V	L53/L53D
SONY	Vaio GR Vaio SR Vaio SRX Vaio VX series Vaio 161L Vaio PCG-500 Vaio PCG-505 Vaio PCG-505EX Vaio PCG-505F Vaio Picturebook PCG-C1X Vaio 505, PCG-505FX Vaio PCG-505G Vaio PCG-505GX Vaio PCG-505LS Vaio PCG-505TR Vaio PCG-505TS Vaio PCG-505TX Vaio PCG-505X Vaio Picturebook PCG-C1X	16V	L54/L54D

Brand	Series Model	Voltage	Tips Number
SONY	Vaio PCG-XG Vaio 808 Vaio 812 Vaio 818 Vaio 838 Vaio PCG-Z505 Vaio PCG-Z600 Vaio PCG-R600 Vaio QR series Vaio PCG-430 thru 490 Vaio PCG-431 Vaio PCG-450 Vaio PCG-461 Vaio PCG-480 Vaio PCG-481 Vaio PCG-490 Vaio PCG-491 Vaio PCG-700 Vaio PCG-705C Vaio PCG-707C Vaio PCG-717C Vaio PCG-719C Vaio PCG-731 Vaio PCG-735 Vaio PCG-737 Vaio PCG-745 Vaio PCG-747 Vaio PCG-705 thru 748C Vaio PCG-F Vaio FX	19V	L54/L54D

Brand	Series Model	Voltage	Tips Number
SONY	Vaio XG series Vaio 580 Vaio 800 Vaio 161L Vaio PCG-900 Vaio PCG-955A Vaio PCG-9401 Vaio PCG-Z505 Vaio PCG-Z600 Vaio PCG-Z600 Vaio PCG-R600 Vaio QR Series	19V	L54/L54D
TOSHIBA	Libretto 20CT Libretto 30CT Libretto 50CT Libretto 60CT Libretto 70CT Protégé 300 Protégé 320 Protégé 610 Protégé 620 Protégé 650 Protégé 660 Protégé 3400 Protégé 3600 Protégé 7000 Protégé 7010 Protégé 7020 Protégé 7030	16V 16V	L55/L55D L55/L55D

Brand	Series Model	Voltage	Tips Number
TOSHIBA	Protégé 7140 Protégé 7200 Protégé M200 Tablet Protégé R100	16V	L55/L55D
	Satellite A85 Satellite 1000 Satellite 1005 Satellite 1600 Satellite 1605 Satellite 1625 Satellite 1700 Satellite 3000 Satellite M30X Satellite M35X	19V	L53/L53D
	Satellite T1850 Satellite T1900 Satellite T1910 Satellite T1950 Satellite T1960 Satellite T2400 Satellite T3400 Satellite T3600 Satellite T4500 Satellite T4600 Satellite T4700 Satellite T4700C Satellite T4700CS Satellite T4700CT Satellite T4700	19V	Output Cable

Brand	Series Model	Voltage	Tips Number
TOSHIBA	Satellite T4800	19V	Output Cable
	Satellite T4800CT		
	Satellite T4850CT		
	Satellite T4900		
	Satellite T4900CT		
	Satellite T4950CT		
	Satellite T200 thru 4100	16V	L55/L55D
	Satellite 200		
	Satellite 220		
	Satellite 225		
	Satellite 305		
	Satellite 315		
	Satellite 320		
	Satellite 325		
	Satellite 330		
	Satellite 335		
	Satellite 440		
	Satellite 460		
	Satellite 470		
	Satellite 480		
	Satellite 490		
	Satellite 1555		
	Satellite 1800		
	Satellite 2000		
	Satellite 2100		
	Satellite 2140		
	Satellite 2180		
	Satellite 2210		
	Satellite 2280		
	Satellite 2500		

Brand	Series Model	Voltage	Tips Number
TOSHIBA	Satellite 2590 Satellite 2600 Satellite 2615 Satellite 2655 Satellite 2675 Satellite 2700 Satellite 2715 Satellite 2800 Satellite 2805 Satellite 4000 Satellite 4010 Satellite 4020 Satellite 4030 Satellite 4060 Satellite 4080 Satellite 4090 Satellite410 Satellite 4200 Satellite 4280 Satellite 4300 Satellite 4600 Satellite 1800-S203 Satellite 1800-S253 Satellite 2250XCDS Satellite 2250CDT Satellite M30	16V	L55/L55D
	Satellite Pro 400 Satellite Pro 405 Satellite Pro 410 Satellite Pro 415	16V	L55/L55D

Brand	Series Model	Voltage	Tips Number
	Satellite Pro 420 Satellite Pro 425 Satellite Pro 430 Satellite Pro 435 Satellite Pro 440 Satellite Pro 445 Satellite Pro 460 Satellite Pro 465 Satellite Pro 470 Satellite Pro 480 Satellite Pro 490 Satellite Pro 490X Satellite Pro CDX Satellite Pro CDS	16V	L55/L55D
TOSHIBA	Tecra 500 Tecra 505 Tecra 510 including CDT Tecra M1 Tecra M2 Tecra S1 Tecra 520 Tecra 530 Tecra 550 Tecra 700 Tecra 710 Tecra 720 Tecra 730 Tecra 730X Tecra 740 Tecra 750	16V	L55/L55D

Brand	Series Model	Voltage	Tips Number
TOSHIBA	Tecra 780 Tecra 8000 Tecra 8100 Tecra 8200 Tecra 9000 Tecra 9100	16V	L55/L55D
	4090XDVD 2545CDS	16V	Output Cable
TRIGEM	Dreamboo A Dreamboo F Dreamboo T Dreamboo U Dreamboo X Dreamboo A Dreamboo F Dreamboo T Dreamboo U Dreamboo X	19V	L01/L01D
	Figaro 300TG Figaro 500TZ.500TG Figaro P88T Figaro 600	19V	L53/L53D
Twinhead	SlimNote 910CV SlimNote 9133TV SlimNote 9133TZ SlimNote 9159TZ SlimNote 9166TZ SlimNote VX	19V	L53/L53D

Brand	Series Model	Voltage	Tips Number
Twinhead	SlimNote VXE SlimNote VXE3 SlimNote Gx2 SlimNote 602TZ	19V	L53/L53D
	Marco Polo S Body Power Slim 601TZ Power Slim 600	19V	Output Cable
VIEWSONIC	Viewsonic Viewpad 1000	16V	L53/L53D
	Viewsonic Viewpad 100	19V	L53/L53D
Winbook	Winbook XP Series Winbook Xp5 Pro Series Winbook FX Series Winbook Si Series Winbook Z Series Winbook X Series Winbook J Series (all models)	19V	L53/L53D
	Winbook XL Winbook XL2 Winbook X L3 Series	19V	L51/L51D



1. The above list is to be considered a partial list. Additional tips not bundled with Energy Box might be necessary for compatibility with digital devices not included on the list.

2. Standard Tips bundled: L01, L01D, L51, L51D, L53, L53D, L54, L54D, L55, L55D, L61, L61D